TABLE 1

N.A.D. 1983 COORDINATES
OUTER HARBOR CHANNEL ANGLE POINTS AND CONTROL LINE

CHANNEL ∠ PT.	EASTING	NORTHING	CL ∠ PT.	EASTING	NORTHING
O-1	E 6020245.90	N 2118153.46	C1-O	E 6024016.87	N 2119632.35
O-2	E 6024147.07	N 2119037.66	C2-O	E 6025188.46	N 2119896.23
O-3	E 6026473.56	N 2119570.70	C3-O	E 6025737.33	N 2120062.50
O-4	E 6029195.32	N 2121154.59	C4-O	E 6028997.15	N 2121502.72
O-5	E 6032145.86	N 2123096.60	C5-O	E 6029354.80	N 2121699.81
O-6	E 6035035.47	N 2122691.23	C6-O	E 6032165.52	N 2123462.80
O-7	E 6037882.95	N 2125972.21	C7-O	E 6035180.13	N 2123505.95
O-8	E 6038502.15	N 2126685.68	C8-O	E 6037620.33	N 2126318.15
O-9	E 6038225.45	N 2126792.32	C9-O	E 6038054.24	N 2126382.46
O-10	E 6037357.62	N 2126663.70	C10-O	E 6039210.60	N 2126093.74
O-11	E 6035435.04	N 2124447.60			
O-12	E 6034521.88	N 2124383.85			
O-13	E 6034015.75	N 2124177.44			
O-14	E 6032185.18	N 2123829.00			
O-15	E 6028402.05	N 2121692.56			
O-16	E 6025557.78	N 2120540.54			
O-17	E 6023915.29	N 2120061.03			
O-18	E 6020014.00	N 2119177.46			

PRELIMINARY ISSUE
THIS PLAN ISSUED FOR ADVANCE INFORMATION ONLY

LLNR 4630: LIGHTED BUOY 3
100' OUTSIDE CHANNEL LIMIT
(6028356.451, 2121781.558)

LLNR 4635: OAKLAND 7TH STREET TERMINAL LIGHT 2
46' OUTSIDE CHANNEL LIMIT
(6029407.281, 2121046.906)

START INNER HARBOR DREDGING
STATION 0+550

LLNR 4660: OAKLAND 7TH STREET TERMINAL LIGHT 1
100' OUTSIDE CHANNEL LIMIT
(6029768.1142, 2120161.5241)

LLNR 4665: LIGHTED BUOY 4
100' OUTSIDE CHANNEL LIMIT
(6027847.048, 2119387.609)

LLNR 4605: BAR CHANNEL LIGHTED BELL BUOY 1
100' OUTSIDE CHANNEL LIMIT
(6025530.281, 2120626.678)

LLNR 4606: BAR CHANNEL LIGHTED BUOY 2
100' OUTSIDE CHANNEL LIMIT
(6026481.633, 2119471.027)

START OUTER HARBOR DREDGING
STATION 0+000

MATCH LINE, SHEET 4

MATCH LINE, SHEET 2

NOTES:

DRAWINGS NOT TO BE USED AS NAVIGATION. ONLY CHANNEL CONDITION AT DATE OF SURVEY. THE LOCATION OF ALL NAVIGATION AIDS ARE BASED ON INFORMATION PROVIDED BY THE U.S. COAST GUARD. BUOY LOCATIONS REPRESENT THE POSITION OF THE SINKER ONLY.

SURVEYED BY SEA SURVEYOR.

SOUNDINGS WERE TAKEN BY FATHOMETER AND ARE SHOWN TO THE NEAREST TENTH OF A FOOT.

SOUNDINGS ARE BASED ON THE DATUM OF MEAN LOWER LOW WATER AT THE LOCALITY. NGVD 1929

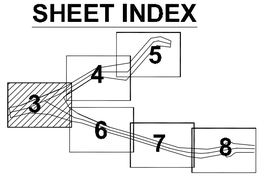
VERTICAL CONTROL
BENCHMARK 'MON. 4787A 1984 ELEV. 9.36 FT. MLLW.
BENCHMARK 'MON. 4777A 1994 ELEV. 13.67 FT. MLLW.
BENCHMARK 'MON. MOLE RM-1 ELEV 12.36 FT. MLLW.
BENCHMARK 'MON. PORT1 1938 ELEV 9.38 FT. MLLW.
TIDE GAUGE LOCATION: OAKLAND ARMY BASE, PIER 7, BERTH 40

HORIZONTAL GPS CONTROL
COAST GUARD D-BEACON

PLANE GRID AND COORDINATES ARE BASED ON LAMBERT PROJECTION, ZONE III, CALIFORNIA AS DESCRIBED IN SPECIAL PUBLICATION NO. 235, PUBLISHED BY THE NATIONAL OCEAN SURVEY.

PROJECT DEPTH OF OUTER HARBOR IS 42 FEET. PROJECT OF INNER HARBOR TO PARK STREET BRIDGE IS 42 FEET. TIDAL CANAL PROJECT DEPTH IS 25 FEET.

SHEET INDEX



GRAPHICS SCALE 1" = 200'

200' 0 100' 200' 400' 800'

US Army Corps of Engineers
San Francisco District
333 Market Street
San Francisco, CA 94105

Mark	Description	Date	Appr

SUBMITTED: PC
Hydro Survey Team Leader
APPROVAL RECOMMENDED:
Chief, Technical Support Section
APPROVED:
Chief, Construction Branch

DESIGNED BY: | CHECKED BY: TVW | DRAWN BY: EWC
DATE: 12/20/2005 | SHEET NO. 3 OF 8 | DRAWING NO. 2 | 351

PREPARED UNDER THE DIRECTION OF
PHILIP T. FEIR
LT. COLONEL, C.E., DISTRICT ENGINEER

ALAMEDA COUNTY CALIFORNIA

OAKLAND HARBOR
OAKLAND INNER/OUTER HARBOR
POSTDREDGE SURVEY
30 NOVEMBER, 5-9 DECEMBER 2005

Sheet reference number
C3

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